

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1 to 62 (Cancelled)

Claim 63 (Withdrawn): Sheet material for application to a cigarette to reduce sidestream smoke, said sheet material comprising a composition of substantially hydrophobic sorbent, sheet reinforcement and an oxygen storage component which releases oxygen at free-burn rate temperatures adjacent a burning coal of a cigarette, said sheet material having the characteristics of:

- i) a porosity in the range of at least about 200 Coresta units;
- ii) a pore size of about 50Å to about 2 microns;
- iii) a BET surface area for the composition greater than about 20 m²/g;
- iv) a density of about 0.3 to about 0.8 g/cc; and
- v) a sheet thickness of about 0.04 mm to about 1 mm.

Claim 64 (Withdrawn): Sheet material of claim 63 wherein said BET surface area is less than about 1000 m²/g.

Claim 65 (Withdrawn): Sheet material of claim 63 wherein said BET surface area is less than about 500m²/g.

Claim 66 (Withdrawn): Sheet material of claim 63 wherein said BET surface area is less than about $300\text{m}^2/\text{g}$.

Claim 67 (Withdrawn): Sheet material of claim 63 wherein said sorbent is activated carbon having a BET surface area of about 300 to about $1800\text{m}^2/\text{g}$ and a pore size distribution of about 9\AA to about 40\AA .

Claim 68 (Withdrawn): Sheet material of claim 63 wherein said sorbent is a zeolite having a BET surface area of about 300 to about $1000\text{m}^2/\text{g}$ and a pore size distribution of about 5\AA to about 20\AA .

Claim 69 (Withdrawn): Sheet material of claim 63 wherein said sorbent is a porous metal oxide having a BET surface area of about 10 to about $400\text{m}^2/\text{g}$ and a pore size distribution of about 5\AA to about 20\AA .

Claim 70 (Withdrawn): Sheet material of claim 63 wherein said material has a pore volume of about 0.05 to about $1.0\text{cm}^3/\text{g}$.

Claim 71 (Withdrawn): Sheet material of claim 63 wherein said sheet reinforcement is in the form of strands, flakes or filament like materials.

Claim 72 (Withdrawn): Sheet material of claim 63 wherein said material has a pore openings in interstitial spaces ranging in size from about 200\AA to about 2 microns.

Claim 73 (Withdrawn): Sheet material of claim 63 wherein said oxygen storage component is a metal oxide having multiple oxidation states.

Claim 74 (Withdrawn): Sheet material of claim 73 wherein said metal oxide is selected from the group consisting of transition metal oxides, rare earth metal oxides and lanthanide metal oxides.

Claim 75 (Withdrawn): Sheet material of claim 73 wherein said transition metal oxide is selected from the group consisting of IVB, VB, VIB, VIIB, VIII and IB of the Periodic Table of Elements, mixtures thereof and solid solutions of two or more metal oxides.

Claim 76 (Withdrawn): Sheet material of claim 73 wherein said metal oxide is selected from oxides of the lanthanide metals.

Claim 77 (Withdrawn): Sheet material of claim 76 wherein said metal oxide is an oxide of cerium or a solid solution of cerium with another metal oxide.

Claim 78 (Withdrawn): Sheet material of claim 63 wherein said material additionally comprises a catalyst for promoting oxidation of said non-aqueous components.

Claim 79 (Withdrawn): Sheet material of claim 78 wherein said catalyst is selected from the group consisting of platinum group of metals, transition metal oxides, rare earth metal oxides, lanthanide metal oxides, aluminum silicates, aluminum oxides, calcium carbonates, mixtures thereof, and solid solutions of at least two of said metal oxides.

Claim 80 (Withdrawn): Sheet material of claim 79 wherein said catalyst is selected from the group consisting of zeolites, platinum, palladium and cerium.

Claim 81 (Withdrawn): Sheet material of claim 76 wherein said catalyst is an oxide of cerium.

Claim 82 (Withdrawn): Sheet material of claim 73 wherein said oxygen storage component has the dual function of an oxidation catalyst.

Claim 83 (Withdrawn): Sheet material of claim 82 wherein said oxygen storage component has a dual function as a catalyst selected from the group consisting of transition metal oxides having multiple oxidation states and lanthanide metal oxides.

Claim 84 (Withdrawn): Sheet material of claim 83 wherein said dual function oxygen storage component and catalyst is an oxide of cerium.

Claim 85 (Withdrawn): Sheet material of claim 63 wherein said oxygen storage component is present in said material in an amount effective for said oxidation up to about 30% by weight.

Claim 86 (Withdrawn): Sheet material of claim 78 wherein said oxygen storage component and said catalyst is present in said material in a combined amount effective for said oxidation up to about 30% by weight.

Claim 87 (Withdrawn): Sheet material of claim 82 wherein said dual function material is present in said material in a amount effective for said oxidation up to about 30% by weight.

Claim 88 (Withdrawn): Sheet material of claim 85 wherein said oxygen storage component and/or said catalyst is present in the amount of about 5% to about 20% by weight.

Claim 89 (Withdrawn): Sheet material of claim 85 wherein oxygen storage material is additionally added to an interior surface of said material adjacent said cigarette paper.

Claim 90 (Withdrawn): Sheet material of claim 63 wherein said material has a porosity of less than 10,000 Coresta units.

Claim 91 (Withdrawn): Sheet material of claim 90 wherein said material has a porosity of at least about 300 Coresta units.

Claim 92 (Withdrawn): Sheet material of claim 91 wherein said material has a porosity of less than 4000 Coresta units.

Claim 93 (Withdrawn): Sheet material of claim 63 wherein said material is wrapped onto said cigarette paper to define a wrapper of material for said unit.

Claim 94 (Withdrawn): Sheet material of claim 63 wherein said material is multilayered.

Claim 95 (Withdrawn): Sheet material of claim 94 wherein a first layer adjacent the cigarette paper is predominantly of said oxygen storage material, a second layer is predominantly said catalyst material or said sorbent material and a third layer is predominantly the other of catalyst or sorbent.

Claim 96 (Withdrawn): Sheet material of anyone of the preceding claims wherein said sorbent material is selected from the group consisting of activated carbon, molecular sieves and porous metal oxides.

Claim 97 (Withdrawn): Sheet material of claim 94 wherein said sorbent is activated carbon.

Claim 98 (Withdrawn): Sheet material of claim 94 wherein said sorbent is a zeolite having pore diameters sufficient to sorb non-aqueous components of sidestream smoke.

Claim 99 (Withdrawn): Sheet material of claim 96 wherein said zeolite is has large pore sizing in the range of about 9 to 40Å.

Claim 100 (Withdrawn):100 Sheet material of claim 97 wherein said zeolite is a Y zeolite.

Claim 101 (Withdrawn): Sheet material of claim 97 wherein said porous metal oxide is prepared by heat treating a sheet material comprising metal oxides, sheet reinforcements and organics which are driven off during heat treatment at temperatures in the range of about 300 to 800 degrees centigrade, to provide a porous sheet material.

Claim 102 (Withdrawn): Sheet material of any one claim 63 wherein said material has a heat capacity which conducts heat away from a burning coal to provide a temperature at inside surface of said material adjacent a burning coal of said cigarette of about 400 to 550 degrees centigrade and a centreline temperature adjacent a burning coal in said cigarette of about 700 to 950°C.

Claim 103 (Withdrawn): Sheet material of claim 63 wherein said sheet material as applied to said cigarette has a thickness in the range of about 0.04 mm to about 1mm.

Claim 104 (Withdrawn): Sheet material of claim 63 wherein said material as applied to said cigarette has an outside surface which is unrestricted by any coating or additional paper wrap.

Claim 105 (Withdrawn): A method of making a cigarette unit comprising wrapping a sheet material of claim 63 about a cigarette having cigarette paper.

Claim 106 (Withdrawn): A method of claim 105 wherein said wrapped sheet material is connected at a lap seam and glued in place, said wrapper being free of any outer combustible covering.

Claim 107 (Withdrawn): A method of making a cigarette unit comprising wrapping a sheet material of claim 63 and simultaneously a cigarette paper onto a tobacco rod with said paper being innermost and adjacent said tobacco rod.

Claim 108 (Withdrawn): A method of claim 107 wherein said cigarette paper has a conventional porosity in the range of about 5 to about 70 Coresta units.

Claim 109 (Withdrawn): A method of making a cigarette unit comprising forming a tube of said material of claim 63 with a cigarette paper on an inside surface of said tube, said tube having an internal diameter sized to receive a non-smokeable cigarette tobacco rod which becomes smokeable when inserted into said tube.

Claim 110 (Previously Presented): A cigarette comprising a wrapper including a dry precursor cigarette sheet material comprising a non-combustible material for treating cigarette sidestream smoke; sheet reinforcement; a binder; and organics, said organics being combustible when said cigarette is burning at a temperature of a high temperature cigarette burn zone.

Claim 111 (Currently Amended): A cigarette of claim 110, wherein said non-combustible material comprises an oxygen storage component, the oxygen storage component being a metal oxide having multiple oxidation states.

Claim 112 (Currently Amended): A cigarette of claim 111, wherein said metal oxide is selected from the group consisting of transition metal oxides, rare earth metal oxides and lanthanide metal oxides.

Claim 113 (Currently Amended): A cigarette of claim 112, wherein said transition metal oxide is selected from the group consisting of ~~IVB~~, VB, VIB, VIIB, VIII and IB of the Periodic Table of Elements, mixtures thereof and solid solutions of two or more metal oxides.

Claim 114 (Cancelled).

Claim 115 (Currently Amended): A ~~dry precursor cigarette sheet material of~~ claim ~~114~~ 112, wherein said metal oxide is an oxide of cerium.

Claim 116 (Currently Amended): A ~~dry precursor cigarette sheet material~~ of claim ~~114~~ 115, wherein said non-combustible material additionally comprises a catalyst for promoting oxidation of non-aqueous components entering said material, said catalyst being in admixture with said oxygen storage component.

Claim 117 (Currently Amended): A ~~dry precursor cigarette sheet material~~ of claim 116, wherein said catalyst is selected from the group consisting of platinum group of metals, transition metal oxides, rare earth metal oxides, lanthanide metal oxides, aluminum silicates, aluminum oxides and calcium carbonates and solid solutions of two or more metal oxides.

Claim 118 (Currently Amended): A ~~dry precursor cigarette sheet material~~ of claim 117, wherein said catalyst is selected from the group consisting of aluminum silicates, platinum, palladium, iron, copper, silver and cerium.

Claim 119 (Currently Amended): A ~~dry precursor cigarette sheet material~~ of claim 118, wherein said catalyst is an oxide of cerium or a solid solution of cerium with another metal oxide of claim 117.

Claim 120 (Currently Amended): A ~~dry precursor cigarette sheet material~~ of claim ~~114~~ 112, wherein said lanthanide metal is an oxygen storage component having a dual function as an oxidation catalyst and oxygen storage.

Claim 121 (Cancelled).

Claim 122 (Currently Amended): A ~~dry precursor cigarette sheet material~~ of claim 121, wherein said oxygen storage component and catalyst is an oxide of cerium.

Claim 123 (Currently Amended): A ~~dry precursor cigarette sheet material~~ of claim ~~H4~~112, wherein said metal oxide is present in said material in an amount effective for said oxidation up to about 30% by weight.

Claim 124 (Currently Amended): A ~~dry precursor cigarette sheet material~~ of claim 123, wherein said metal oxide is present in the range of about 5 to about 20% by weight.

Claim 125 (Currently Amended): A ~~dry precursor cigarette sheet material~~ of claim ~~H4~~112, wherein said non-combustible material additionally comprises a sorbent capable of sorbing components of sidestream smoke, said metal oxide contributing to oxidation treatment of sorbed components of sidestream smoke.

Claim 126 (Currently Amended): A ~~dry precursor cigarette sheet material~~ of claim 125, wherein said sorbent is selected from the group consisting of activated carbon, molecular sieves and porous metal oxides.

Claim 127 (Currently Amended): A ~~dry precursor cigarette sheet material~~ of claim ~~H4~~112, wherein said binder is selected from the group consisting of inert clays, aluminum silicate, magnesium silicate, cellulose materials, plastic and mixtures thereof.

Claim 128 (Currently Amended): A ~~dry precursor cigarette sheet material~~ of claim ~~H4~~112, wherein said binder is an organic binder, said organic binder being combustible at the high temperature cigarette burn zone of the burning cigarette.

Claim 129 (Currently Amended): A ~~dry precursor cigarette sheet material~~ of claim 128, wherein said organic binder is selected from the group consisting of cellulose materials, plastic and mixtures thereof.

Claim 130 (Currently Amended): A method of treating sidestream smoke emitted by a burning cigarette having a sheet material of claim ~~114~~112, said method comprising activating said sheet material at a temperature of a high temperature cigarette burn zone of said burning cigarette.